

Notice of Allowability**Application No.**

10/608,985

Examiner

TUAN A. VU

Applicant(s)

SRIVASTAVA ET AL.

Art Unit

2193

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/26/08.
2. ☒ The allowed claim(s) is/are 21-26, 29-31 (renum 1-9).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 9/26/08
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 12/06/08
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

DETAILED ACTION

1. This action is responsive to the Applicant's response filed 9/26/08.

As indicated in Applicant's response, claims 21, 25, 29, 31 have been amended and claims 1-20, 27-28, 32-36 canceled. Claims 21-26, 29-31 are pending in the office action.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
3. Authorization for this examiner's amendment was given in a telephone interview with Stephen Wight (# 37759) and Fred Maurer (#43781), on 12/1-12/05/0.

The application has been amended as follows.

In the **CLAIMS**:

The claims have been amended according to the herein attached Amendment, namely, "Proposed Amendments to the Claims", provided as file "Proposd_120508.pdf"

In the **Specifications**:

The Specifications have been amended according to page 7 of the attached file "Proposd_120508.pdf" as set forth above.

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

4. Claims 21-26, 29-31 are allowed.
5. The Double Patenting Rejection as per the last Office Action (3/26/08) has been withdrawn as per the above amendment.

The following is an examiner's statement of reasons for allowance.

The prior art taken separately or jointly does not suggest or teach the following features.

A method for prioritizing tests on binary files, where each file include logical abstractions comprising one or more basic blocks, comprising

(i) determining inter-subsystem dependency information for said binary files and propagating said information by recording entry and exit points for each binary file; generating and recording entry and exit points for each file out of a set of binary files (or subsystem); generating and recording entry and exit points for subsystems in the system of binary files;

(ii) comparing, for each binary file, the binary file with a old version thereof and recording logical abstractions which have changed between the two files; based on the dependency information obtained from (i), marking and recording changed abstractions based on the binary files being compared; marking unchanged abstractions in unchanged binary files, that are dependent on changed abstractions in the changed files based on the comparing;

(iii) performing test coverage analysis based on the marking of unchanged and changed logical abstractions by inserting checkpoints into binary files with markings to obtain coverage indicators as to which logical abstractions that would have been executed; executing test the binary files and determining which blocks have been tested, based on the checkpoints, and establishing test priorities based on the test coverage analysis; as set forth in claims 21, 25, 29.

Srivastava, "Effectively Prioritizing Tests in Development Environment" teaches a tool enabling comparing of 2 version of binary files including algorithm with obtaining of coverage indicator, for establishing impact analysis and prioritization of tests; but does not teach or

suggest the inter-subsystem propagating of dependency information in 3 stages as set forth in (i) and marking as in (ii) of unchanged logical abstractions in unchanged files that are dependent on changed logical abstractions marked in changed binary files, based on the inter-subsystem dependency information obtained from (i).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A Vu whose telephone number is (571) 272-3735. The examiner can normally be reached on 8AM-4:30PM/Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis Bullock can be reached on (571)272-3759.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3735 (for non-official correspondence - please consult Examiner before using) or 571-273-8300 (for official correspondence) or redirected to customer service at 571-272-3609.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100.
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be

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obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tuan A Vu/

Primary Examiner, Art Unit 2193

December 06, 2008